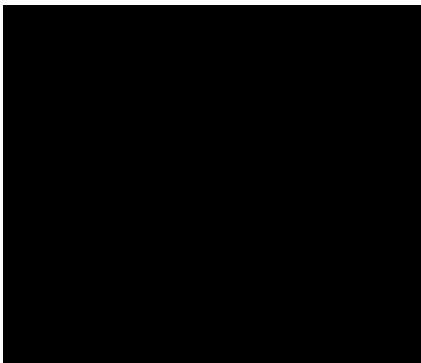


## 2017 Model Year Engine Families; HHDXC Items

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#### CBI\_HHDXC\_COMMON\_RFA\_APP\_R00

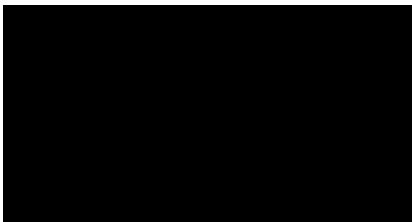
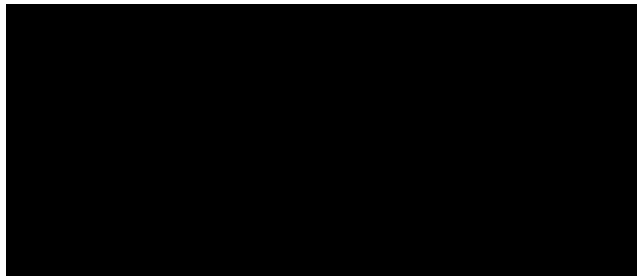
The items in this document are applicable to the following Engine Families:



HHDXC1.75AEE

HHDXC1.87AEF

HHDXC1.75AEG



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[REDACTED]

Harley-Davidson Motor Company  
Product Development Center  
Motorcycle Regulatory Compliance, Environmental  
11800 West Capitol Drive  
Wauwatosa, WI 53222-1007

May 3<sup>rd</sup>, 2016

Director of Certification  
Certification Division  
United States Environmental Protection Agency  
2000 Traverwood Drive  
Ann Arbor, Michigan 48105  
Attention: Donna Ringle, Certification Division

**Confidential - CBI document**

*Application Submittal: 2017 Model Year EPA certification*

Donna:

Enclosed are the electronic materials for the remainder of the 2017 model year certification of Harley-Davidson Motorcycles as submitted to your Verify/CDX system. We would appreciate your timely support in reviewing our application as Harley-Davidson will begin producing 2017 MY motorcycles on or about July 5th, 2016; (as indicated in our meeting in Ann Arbor on 2/13/13, please do not post the Engine Family data to EPA'S web site until 9/01/16). Each engine family, within CDX, will have a request for approval in the form a pdf. file containing relevant or required information in the format of [REDACTED] Our fee filings for 2017 MY have been submitted and acknowledged by EPA.

[REDACTED]

Harley-Davidson continues to use FEL's for the combined HC + NOX tailpipe standard to achieve the overall EPA corporate averaged standard of <.8 g/km. The only difference between 49 state and California configurations is that the California vehicles contain the evaporative emissions canister and associated hoses. Harley-Davidson issues separate labels for the California variant of the engine family. However, from a tailpipe emissions standpoint, engine families are the same in each case.

## Contains Confidential Business Information

To assist your processing, here is a brief overview of the engine families for 2017 MY:

(1)

(2)

(3)

(4)

(5) GHDXC1.75AEE: (3) Wheeled Liquid Cooled, (Twin Cooled, TC), family with EFI + heated O<sub>2</sub> sensors + one three-way catalyst; contains O.E. 1743 cc FL product  
New 15,000 km cert

(6) GHDXC1.87AEF: (2) Wheeled Liquid Cooled, (Twin Cooled, TC), family with EFI + heated O<sub>2</sub> sensors + one three-way catalyst. Contains O.E. and custom FL product;  
New 15,000 km cert

(7) GHDXC1.75AEG: (3) Wheeled Oil Cooled, (OC), family with EFI + heated O<sub>2</sub> sensors + one three-way catalyst; contains 1746 cc FL product.  
New 15,000 km cert

(7)

(8)

(9)

(10)

### Permeation Test Results for 2017 Model Year

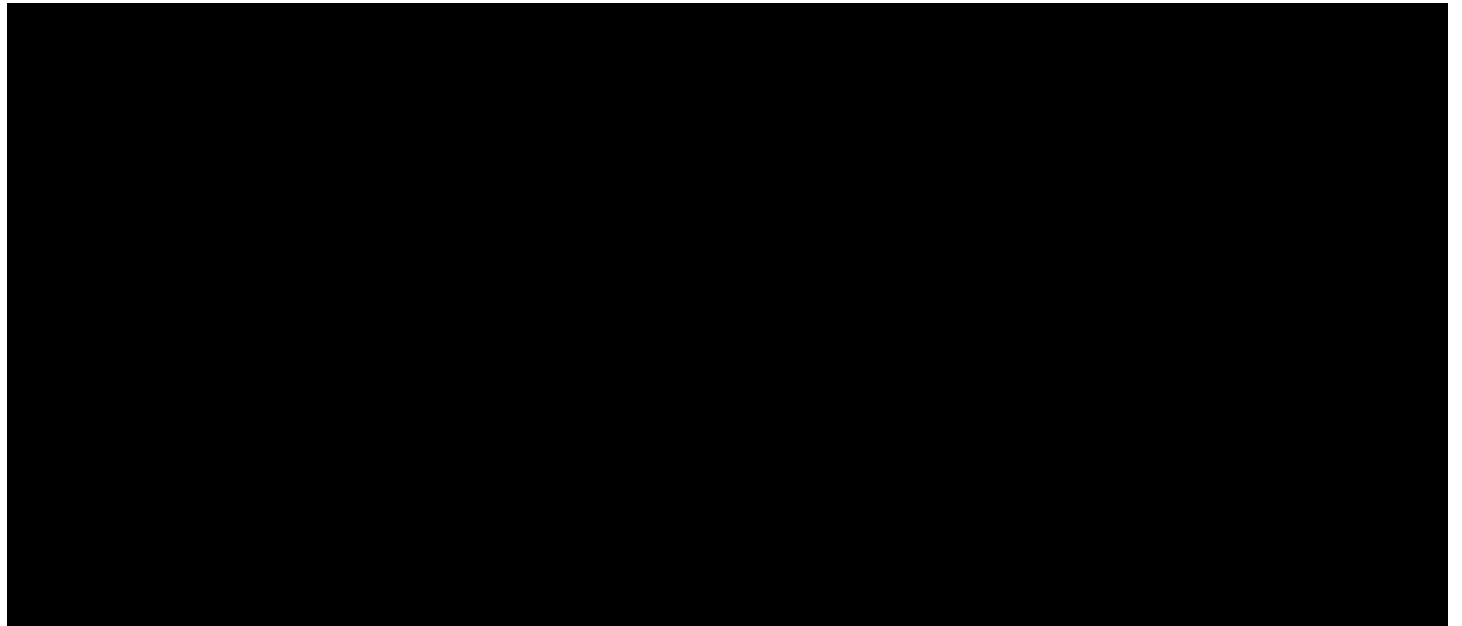
**Contains Confidential Business Information**



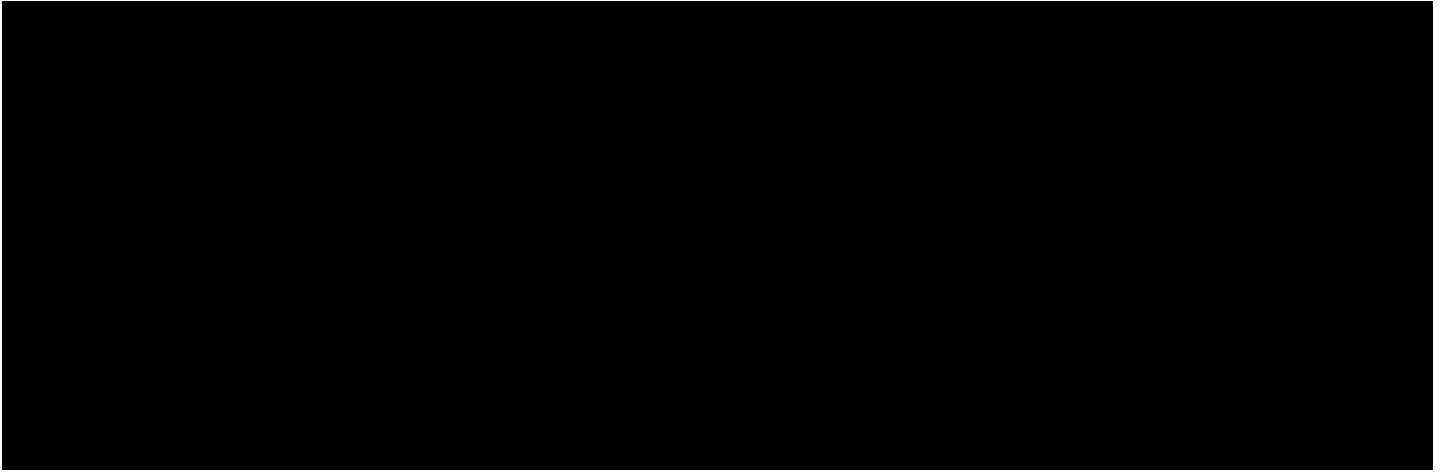
Harley-Davidson declares that its' 2017 MY motorcycles will meet all 2017 applicable MY EPA emissions standards for Class III original equipment on-highway motorcycles as itemized in 40 CFR Part 86 Subpart E, and as conducted according to the testing criteria of Subpart F. We will supply vehicles upon request for testing if EPA so desires. For purposes of communications related to our application, please feel free to contact us at your convenience.



**Adjustability statement and parameters; 2017 Model Year**

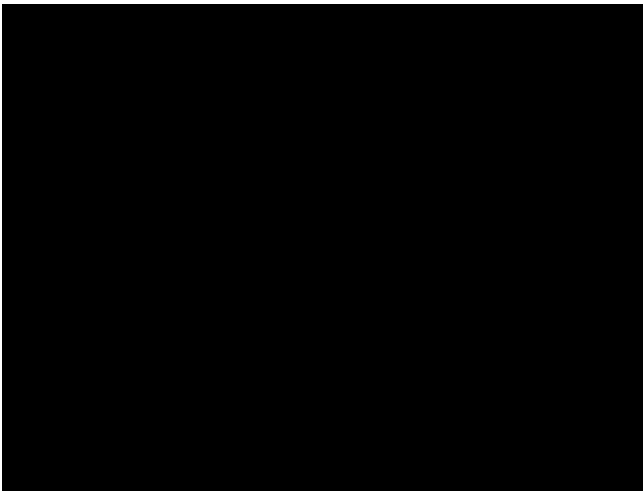


**Contains Confidential Business Information**



Harley-Davidson engages in extensive education of its dealer network to avoid adjustments ordinarily intended for closed course competitions which cause deviations from certified test results. Warnings against such adjustments are placed in the owners' manuals, Parts and Accessories catalogues, and additional educational materials distributed to the dealer network.

We appreciate your assistance and best regards,



## Harley-Davidson Motor Company

### 49 State Corporate averaging FEL for Model year 2017, **Preliminary Projected Volumes**

Gender	Percentage
Male	40%
Female	40%
Other	10%
Unknown	10%

**Total  
Corporate FEL  
avg:  
HC + NOX 0.73**



2017 Model Year Catalyst Summary										
Engine family	P/N	Manufacturer	Catalyst Location	# on Vehicle	Precious Metal Composition (Pt/Pd/Rh)	Loading (g/ft <sup>3</sup> )	Shape and Dimensions (mm)	Substrate Material	CPSI	Type of Catalyst
HHDXC1.75AEE	65800010	BASF	Pipe	1	1/0/1 (REX 1281)	40	Round 70 x 110	DIN 1.4767 40 micron	300	Three Way Catalyst
HHDXC1.75AEG	65800010	BASF	Pipe	1	1/0/1 (REX 1281)	40	Round 70 x 110	DIN 1.4767 40 micron	300	Three Way Catalyst
HHDXC1.87AEF	65800010	BASF	Pipe	1	1/0/1 (REX 1281)	40	Round 70 x 110	DIN 1.4767 40 micron	300	Three Way Catalyst

## 2017 HARLEY-DAVIDSON EMISSION CONTROL SYSTEM LIMITED WARRANTY

The following limited warranty applies to the emission control system, is in addition to the MOTORCYCLE LIMITED WARRANTY and NOISE CONTROL SYSTEM LIMITED WARRANTY, and applies only to Harley-Davidson motorcycles certified for sale, registered, and normally operated in the U.S. Refer to the CALIFORNIA EMISSIONS CONTROL WARRANTY STATEMENT for additional warranty provisions applicable to California motorcycles.

Harley-Davidson Motor Company warrants to the first owner and each subsequent owner that this vehicle is designed, built, and equipped so as to conform at the time of sale with applicable regulations under section 7521 of Title 42 of the United States Code, and that it is free from defects in materials and workmanship which would cause this motorcycle to fail to conform with applicable regulations for five (5) years from the initial retail purchase and delivery from an authorized Harley-Davidson dealer (or five (5) years from the date the motorcycle is first placed in service, if it is first placed in service as a "demonstrator" or "company" motorcycle prior to delivery), or 18,641 miles (30,000 kilometers), whichever occurs first. Any unexpired portion of this limited warranty will be transferred to subsequent owners, upon the resale of the motorcycle during the warranty period.

THERE IS NO OTHER EXPRESS WARRANTY (OTHER THAN THE SEPARATE MOTORCYCLE AND NOISE LIMITED WARRANTIES) ON THE MOTORCYCLE. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE IS LIMITED TO THE DURATION OF THIS WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

The limited warranty period shall begin on the date the motorcycle is delivered to the first retail purchaser or, if the motorcycle is placed in service as a demonstrator or company motorcycle prior to sale at retail, on the date it is first placed in service.

THE FOLLOWING ITEMS ARE NOT COVERED BY THE EMISSION CONTROL SYSTEM LIMITED WARRANTY

1. Failures which arise as a result of misuse, tampering, alterations, accident, acts of nature, or improper or inadequate maintenance as specified in the Owner's Manual.
2. Required maintenance services (as specified in the Owner's Manual) and the replacement of parts (such as spark plugs, fuel and oil filters, etc.) used in required maintenance.
3. Any motorcycle on which the odometer mileage has been changed so that the mileage cannot be determined.
4. TO THE FULLEST EXTENT ALLOWED BY LAW, NEITHER HARLEY-DAVIDSON NOR ITS AUTHORIZED DEALERS SHALL BE LIABLE FOR LOSS OF TIME, INCONVENIENCE, TOWING OF THE VEHICLE, LOSS OF MOTORCYCLE USE, COMMERCIAL LOSS OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

## Items Covered by this Emission Warranty

The emission control system warranty may cover the following parts if the defect is deemed to be emissions-related:

- Air cleaner assembly
- Cam shaft
- Spark plug
- Ignition coil
- Ignition wires
- Vapor valve
- Catalytic converter
- Crankcase breather
- MAP sensor
- TMAP sensor
- Intake air temperature sensor
- Throttle position sensor
- Fuel injectors
- Induction module or throttle body
- Engine temperature sensor
- Electronic control unit
- Regulator/fuel pump (for leaks and/or high and low-pressure failures)
- Fuel filter
- Oxygen sensors

### Fuel Tank (non-cosmetic failures only)

- Leaks
- Fuel vapor separator
- Fuel cap

If used on the above: hoses, clamps, fittings, tubing, sealing gaskets and mounting hardware.

Detailed instructions for proper maintenance and use of this motorcycle, including the time and/or mileage intervals at which such maintenance is to be performed, may be found in this Owner's Manual under MAINTENANCE SCHEDULING, Service Records.

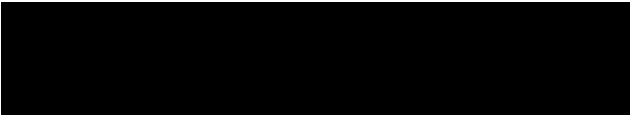
## Other Rights

This limited warranty gives you specific legal rights, and you may have other rights which vary from state to state.

## Recommendations for Required Maintenance

It is recommended that any emission system maintenance be performed by an authorized Harley-Davidson dealer using genuine Harley-Davidson replacement parts. However the maintenance, replacement or repair of the emissions control system may be performed by any other qualified service outlet or individual. Non-genuine Harley-Davidson parts may be used only if such parts are certified to comply with U.S. Environmental Protection Agency Standards.





Part No	Model	"A" Engine Size	"B" Engine Family	"C" Model Year	"D" FEL	"E" Control Systems	"F" Permeation Family	"G" Octane Req.	"H" Muffler Identifier	"I" RPM
14001252	FLRT-Free Wheeler	1746	HHDXC1.75AEG	2017	0.8	SFI, 2 HO2S, TWC	HHDXPMETAL03	91	HARFLT1746	2761
14001251	FLHTCUTG - Tri Glide Ultra Classic	1746	HHDXC1.75AEE	2017	0.7	SFI, 2 HO2S, TWC	HHDXPMETAL03	91	HARFLT1746	2761
14001285	FLHTK-Ultra Limited	1746	HHDXC1.87AEF	2017	0.7	SFI, 2 HO2S, TWC	HHDXPMETAL03	91	HARFLT1746	2761
14001285	FLHTK-Ultra Limited Shrine Edition	1746	HHDXC1.87AEF	2017	0.7	SFI, 2 HO2S, TWC	HHDXPMETAL03	91	HARFLT1746	2761
14001285	FLHTKL-Ultra Limited Low	1746	HHDXC1.87AEF	2017	0.7	SFI, 2 HO2S, TWC	HHDXPMETAL03	91	HARFLT1746	2761
14001285	FLTRU-Road Glide Ultra	1746	HHDXC1.87AEF	2017	0.7	SFI, 2 HO2S, TWC	HHDXPMETAL03	91	HARFLT1746	2761
14001286	FLHTKSE-CVO Ultra Limited	1868	HHDXC1.87AEF	2017	0.7	SFI, 2 HO2S, TWC	HHDXPMETAL03	91	HARFLT1868	2761
14001288	FLHXSE-CVO Street Glide	1868	HHDXC1.87AEF	2017	0.7	SFI, 2 HO2S, TWC	HHDXPMETAL03	91	HARFLT1868	2761

